

01-21-00

Practitioner's Docket No. 991025

PATENT

Preliminary Classification:

Proposed Class:

Subclass:

NOTE: "All applicants are requested to include a preliminary classification on newly filed patent applications. The preliminary classification, preferably class and subclass designations, should be identified in the upper right-hand corner of the letter of transmittal accompanying the application papers, for example 'Proposed Class 2, subclass 129.'" M.P.E.P. § 601, 7th ed.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Box Patent Application
Assistant Commissioner for Patents
Washington, D.C. 20231

NEW APPLICATION TRANSMITTAL

Transmitted herewith for filing is the patent application of

Inventor(s): Paul Entwistle

WARNING: 37 C.F.R. § 1.41(a)(1) points out:

"(a) A patent is applied for in the name or names of the actual inventor or inventors.

"(1) The inventorship of a nonprovisional application is that inventorship set forth in the oath or declaration as prescribed by § 1.63, except as provided for in § 1.53(d)(4) and § 1.63(d). If an oath or declaration as prescribed by § 1.63 is not filed during the pendency of a nonprovisional application, the inventorship is that inventorship set forth in the application papers filed pursuant to § 1.53(b), unless a petition under this paragraph accompanied by the fee set forth in § 1.17(f) is filed supplying or changing the name or names of the inventor or inventors."

For (title): IMPROVEMENT RELATING TO TELEVISION GUIDE SYSTEM

CERTIFICATION UNDER 37 C.F.R. § 1.10*

(Express Mail label number is mandatory.)

(Express Mail certification is optional.)

I hereby certify that this New Application Transmittal and the documents referred to as attached therein are being deposited with the United States Postal Service on this date 1-20-80 In an envelope as "Express Mail Post Office to Addressee," mailing Label Number EL197551046US, addressed to the: Assistant Commissioner for Patents, Washington, D.C. 20231.

Tonya Williams

(type or print name of person mailing paper)

Tonya Williams
Signature of person mailing paper

WARNING: Certificate of mailing (first class) or facsimile transmission procedures of 37 C.F.R. § 1.8 cannot be used to obtain a date of mailing or transmission for this correspondence.

*WARNING: Each paper or fee filed by "Express Mail" must have the number of the "Express Mail" mailing label placed thereon prior to mailing, 37 C.F.R. § 1.10(b).

"Since the filing of correspondence under § 1.10 without the Express Mail mailing label thereon is an oversight that can be avoided by the exercise of reasonable care, requests for waiver of this requirement will **not** be granted on petition." Notice of Oct. 24, 1996, 60 Fed. Reg. 56,439, at 56,442.

(New Application Transmittal [4-1]—page 1 of 11)

3-759 U.S. PTO
01/20/00

00/02/70
3-525 U.S. PTO
09/486103

1. Type of Application

This new application is for a(n)

(check one applicable item below)

☒ Original (nonprovisional)

☐ Design

☐ Plant

WARNING: Do not use this transmittal for a completion in the U.S. of an International Application under 35 U.S.C. § 371(c)(4), unless the International Application is being filed as a divisional, continuation or continuation-in-part application.

WARNING: Do not use this transmittal for the filing of a provisional application.

NOTE: If one of the following 3 items apply, then complete and attach ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF A PRIOR U.S. APPLICATION CLAIMED and a NOTIFICATION IN PARENT APPLICATION OF THE FILING OF THIS CONTINUATION APPLICATION.

☐ Divisional.

☐ Continuation.

☐ Continuation-in-part (C-I-P).

2. Benefit of Prior U.S. Application(s) (35 U.S.C. §§ 119(e), 120, or 121)

NOTE: A nonprovisional application may claim an invention disclosed in one or more prior filed copending nonprovisional applications or copending international applications designating the United States of America. In order for a nonprovisional application to claim the benefit of a prior filed copending nonprovisional application or copending international application designating the United States of America, each prior application must name as an inventor at least one inventor named in the later filed nonprovisional application and disclose the named inventor's invention claimed in at least one claim of the later filed nonprovisional application in the manner provided by the first paragraph of 35 U.S.C. § 112. Each prior application must also be:

(i) An international application entitled to a filing date in accordance with PCT Article 11 and designating the United States of America; or

(ii) Complete as set forth in § 1.51(b); or

(iii) Entitled to a filing date as set forth in § 1.53(b) or § 1.53(d) and include the basic filing fee set forth in § 1.16; or

(iv) Entitled to a filing date as set forth in § 1.53(b) and have paid therein the processing and retention fee set forth in § 1.21(f) within the time period set forth in § 1.53(f).

37 C.F.R. § 1.78(a)(1).

NOTE: If the new application being transmitted is a divisional, continuation or a continuation-in-part of a parent case, or where the parent case is an International Application which designated the U.S., or benefit of a prior provisional application is claimed, then check the following item and complete and attach ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.

WARNING: If an application claims the benefit of the filing date of an earlier filed application under 35 U.S.C. §§ 120, 121 or 365(c), the 20-year term of that application will be based upon the filing date of the earliest U.S. application that the application makes reference to under 35 U.S.C. §§ 120, 121 or 365(c). (35 U.S.C. § 154(a)(2) does not take into account, for the determination of the patent term, any application on which priority is claimed under 35 U.S.C. §§ 119, 365(a) or 365(b).) For a c-i-p application, applicant should review whether any claim in the patent that will issue is supported by an earlier application and, if not, the applicant should consider canceling the reference to the earlier filed application. The term of a patent is not based on a claim-by-claim approach. See Notice of April 14, 1995, 60 Fed. Reg. 20,195, at 20,205.

(New Application Transmittal [4-1]—page 2 of 11)

WARNING: When the last day of pendency of a provisional application falls on a Saturday, Sunday, or Federal holiday within the District of Columbia, any nonprovisional application claiming benefit of the provisional application must be filed prior to the Saturday, Sunday, or Federal holiday within the District of Columbia. See 37 C.F.R. § 1.78(a)(3). U.S.

- ☒ The new application being transmitted claims the benefit of prior U.S. application(s). Enclosed are ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.

3. Papers Enclosed

- A. Required for filing date under 37 C.F.R. § 1.53(b) (Regular) or 37 C.F.R. § 1.153 (Design) Application

- 8 Pages of specification
3 Pages of claims
2 Sheets of drawing

WARNING: DO NOT submit original drawings. A high quality copy of the drawings should be supplied when filing a patent application. The drawings that are submitted to the Office must be on strong, white, smooth, and non-shiny paper and meet the standards according to § 1.84. If corrections to the drawings are necessary, they should be made to the original drawing and a high-quality copy of the corrected original drawing then submitted to the Office. Only one copy is required or desired. For comments on proposed then-new 37 C.F.R. § 1.84, see Notice of March 9, 1988 (1990 O.G. 57-62).

NOTE: "Identifying indicia, if provided, should include the application number or the title of the invention, inventor's name, docket number (if any), and the name and telephone number of a person to call if the Office is unable to match the drawings to the proper application. This information should be placed on the back of each sheet of drawing a minimum distance of 1.5 cm. (5/8 inch) down from the top of the page . . ." 37 C.F.R. § 1.84(c).

(complete the following, if applicable)

- ☐ The enclosed drawing(s) are photograph(s), and there is also attached a "PETITION TO ACCEPT PHOTOGRAPH(S) AS DRAWING(S)." 37 C.F.R. § 1.84(b).

- ☒ formal
☐ informal

B. Other Papers Enclosed

- 2 Pages of declaration and power of attorney
1 Pages of abstract
2 Other Assignment

4. Additional papers enclosed

- ☐ Amendment to claims
- ☐ Cancel in this applications claims _____ before calculating the filing fee. (At least one original independent claim must be retained for filing purposes.)
 - ☐ Add the claims shown on the attached amendment. (Claims added have been numbered consecutively following the highest numbered original claims.)
- ☒ Preliminary Amendment
- ☒ Information Disclosure Statement (37 C.F.R. § 1.98)
- ☐ Form PTO-1449 (PTO/SB/08A and 08B)
- ☐ Citations

- ☐ Declaration of Biological Deposit
- ☐ Submission of "Sequence Listing," computer readable copy and/or amendment pertaining thereto for biotechnology invention containing nucleotide and/or amino acid sequence.
- ☐ Authorization of Attorney(s) to Accept and Follow Instructions from Representative
- ☐ Special Comments
- ☐ Other

5. Declaration or oath (including power of attorney)

NOTE: A newly executed declaration is not required in a continuation or divisional application provided that the prior nonprovisional application contained a declaration as required, the application being filed is by all or fewer than all the inventors named in the prior application, there is no new matter in the application being filed, and a copy of the executed declaration filed in the prior application (showing the signature or an indication thereon that it was signed) is submitted. The copy must be accompanied by a statement requesting deletion of the names of person(s) who are not inventors of the application being filed. If the declaration in the prior application was filed under § 1.47, then a copy of that declaration must be filed accompanied by a copy of the decision granting § 1.47 status or, if a nonsigning person under § 1.47 has subsequently joined in a prior application, then a copy of the subsequently executed declaration must be filed. See 37 C.F.R. § 1.63(d)(1)-(3).

NOTE: A declaration filed to complete an application must be executed, identify the specification to which it is directed, identify each inventor by full name including family name and at least one given name, without abbreviation together with any other given name or initial, and the residence, post office address and country or citizenship of each inventor, and state whether the inventor is a sole or joint inventor. 37 C.F.R. § 1.63(a)(1)-(4).

NOTE: "The inventorship of a nonprovisional application is that inventorship set forth in the oath or declaration as prescribed by § 1.62, except as provided for in § 1.53(d)(4) and § 1.63(c). If an oath or declaration as prescribed by § 1.63 is not filed during the pendency of a nonprovisional application, the inventorship is that inventorship set forth in the application papers filed pursuant to § 1.53(b), unless a petition under this paragraph accompanied by the fee set forth in § 1.17(f) is filed supplying or changing the name or names of the inventor or inventors." 37 C.F.R. § 1.41(a)(1).

- ☒ Enclosed
☐ Executed by

(check all applicable boxes)

☒ inventor(s).

☐ legal representative of inventor(s).
 37 C.F.R. §§ 1.42 or 1.43.

☐ joint inventor or person showing a proprietary interest on behalf of inventor who refused to sign or cannot be reached.

☐ This is the petition required by 37 C.F.R. § 1.47 and the statement required by 37 C.F.R. § 1.47 is also attached. See item 13 below for fee.

☐ Not Enclosed.

NOTE: Where the filing is a completion in the U.S. of an International Application or where the completion of the U.S. application contains subject matter in addition to the International Application, the application may be treated as a continuation or continuation-in-part, as the case may be, utilizing ADDED PAGE FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION CLAIMED.

☐ Application is made by a person authorized under 37 C.F.R. § 1.41(c) on behalf of all the above named inventor(s).

(New Application Transmittal [4-1]—page 4 of 11)

(The declaration or oath, along with the surcharge required by 37 C.F.R. § 1.16(e) can be filed subsequently).

- ☐ Showing that the filing is authorized.
(not required unless called into question. 37 C.F.R. § 1.41(d))

6. Inventorship Statement

WARNING: If the named inventors are each not the inventors of all the claims an explanation, including the ownership of the various claims at the time the last claimed invention was made, should be submitted.

The inventorship for all the claims in this application are:

☒ The same.

or

- ☐ Not the same. An explanation, including the ownership of the various claims at the time the last claimed invention was made,
- ☐ is submitted.
- ☐ will be submitted.

7. Language

NOTE: An application including a signed oath or declaration may be filed in a language other than English. An English translation of the non-English language application and the processing fee of \$130.00 required by 37 C.F.R. § 1.17(k) is required to be filed with the application, or within such time as may be set by the Office. 37 C.F.R. § 1.52(d).

☒ English

☐ Non-English

- ☐ The attached translation includes a statement that the translation is accurate. 37 C.F.R. § 1.52(d).

8. Assignment

☒ An assignment of the invention to Pace Micro Technology Plc
Victoria Road, Saltaire, Shipley, BD 18 3LF, England

- ☒ is attached. A separate ☒ "COVER SHEET FOR ASSIGNMENT (DOCUMENT) ACCOMPANYING NEW PATENT APPLICATION" or ☐ FORM PTO 1595 is also attached.

☐ will follow.

NOTE: "If an assignment is submitted with a new application, send two separate letters—one for the application and one for the assignment." Notice of May 4, 1990 (1114 O.G. 77-78).

WARNING: A newly executed "CERTIFICATE UNDER 37 C.F.R. § 3.73(b)" must be filed when a continuation-in-part application is filed by an assignee. Notice of April 30, 1993, 1150 O.G. 62-64.

(New Application Transmittal [4-1]—page 5 of 11)

9. Certified Copy

Certified copy(ies) of application(s)

GB	9903220.3	12 February 1999
Country	Appln. No.	Filed
Country	Appln. No.	Filed
Country	Appln. No.	Filed

from which priority is claimed

☐ is (are) attached.☒ will follow.

NOTE: The foreign application forming the basis for the claim for priority must be referred to in the oath or declaration. 37 C.F.R. § 1.55(a) and 1.63.

NOTE: This item is for any foreign priority for which the application being filed directly relates. If any parent U.S. application or International Application from which this application claims benefit under 35 U.S.C. § 120 is itself entitled to priority from a prior foreign application, then complete item 18 on the ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.

10. Fee Calculation (37 C.F.R. § 1.16)A. ☒ Regular application

CLAIMS AS FILED			
Number filed	Number Extra	Rate	Basic Fee 37 C.F.R. § 1.16(a)
			\$760.00 690.
Total			
Claims (37 C.F.R. § 1.16(c))	7 - 20 =	×	\$ 18.00
Independent			
Claims (37 C.F.R. § 1.16(b))	2 - 3 =	×	\$ 78.00
Multiple dependent claim(s),			
if any (37 C.F.R. § 1.16(d))		+	\$260.00

- ☐ Amendment cancelling extra claims is enclosed.
- ☐ Amendment deleting multiple-dependencies is enclosed.
- ☐ Fee for extra claims is not being paid at this time.

NOTE: If the fees for extra claims are not paid on filing they must be paid or the claims cancelled by amendment, prior to the expiration of the time period set for response by the Patent and Trademark Office in any notice of fee deficiency. 37 C.F.R. § 1.16(d).

Filing Fee Calculation \$ 690.

- B. ☐ Design application
(\$310.00—37 C.F.R. § 1.16(f))

Filing Fee Calculation \$

(New Application Transmittal [4-1]—page 6 of 11)

- C. ☐ Plant application
(\$480.00—37 C.F.R. § 1.16(g))

Filing fee calculation

\$ _____

11. Small Entity Statement(s)

- ☐ Statement(s) that this is a filing by a small entity under 37 C.F.R. § 1.9 and 1.27 is (are) attached.

WARNING: "Status as a small entity must be specifically established in each application or patent in which the status is available and desired. Status as a small entity in one application or patent does not affect any other application or patent, including applications or patents which are directly or indirectly dependent upon the application or patent in which the status has been established. The refiling of an application under § 1.53 as a continuation, division, or continuation-in-part (including a continued prosecution application under § 1.53(d)), or the filing of a reissue application requires a new determination as to continued entitlement to small entity status for the continuing or reissue application. A nonprovisional application claiming benefit under 35 U.S.C. § 119(e), 120, 121, or 365(c) of a prior application, or a reissue application may rely on a statement filed in the prior application or in the patent if the nonprovisional application or the reissue application includes a reference to the statement in the prior application or in the patent or includes a copy of the statement in the prior application or in the patent and status as a small entity is still proper and desired. The payment of the small entity basic statutory filing fee will be treated as such a reference for purposes of this section." 37 C.F.R. § 1.28(a)(2).

WARNING: "Small entity status must not be established when the person or persons signing the . . . statement can unequivocally make the required self-certification." M.P.E.P., § 509.03, 6th ed., rev. 2, July 1996 (emphasis added).

(complete the following, if applicable)

- ☐ Status as a small entity was claimed in prior application _____ / _____, filed on _____, from which benefit is being claimed for this application under:

35 U.S.C. § ☐ 119(e),
☐ 120,
☐ 121,
☐ 365(c),

and which status as a small entity is still proper and desired.

- ☐ A copy of the statement in the prior application is included.

Filing Fee Calculation (50% of A, B or C above)

\$ _____

NOTE: Any excess of the full fee paid will be refunded if small entity status is established and a refund request are filed within 2 months of the date of timely payment of a full fee. The two-month period is not extendable under § 1.136. 37 C.F.R. § 1.28(a).

12. Request for International-Type Search (37 C.F.R. § 1.104(d))

(complete, if applicable)

- ☐ Please prepare an international-type search report for this application at the time when national examination on the merits takes place.

13. Fee Payment Being Made at This Time☐ Not Enclosed☐ No filing fee is to be paid at this time.*(This and the surcharge required by 37 C.F.R. § 1.16(e) can be paid subsequently.)*☒ Enclosed☒ Filing fee\$ 690☒ Recording assignment

(\$40.00; 37 C.F.R. § 1.21(h))

(See attached "COVER SHEET FOR
ASSIGNMENT ACCOMPANYING NEW
APPLICATION".)\$ 40☐ Petition fee for filing by other than all the
inventors or person on behalf of the inventor
where inventor refused to sign or cannot be
reached

(\$130.00; 37 C.F.R. §§ 1.47 and 1.17(i))

\$ _____

☐ For processing an application with a
specification in
a non-English language

(\$130.00; 37 C.F.R. §§ 1.52(d) and 1.17(k))

\$ _____

☐ Processing and retention fee

(\$130.00; 37 C.F.R. §§ 1.53(d) and 1.21(l))

\$ _____

☐ Fee for international-type search report

(\$40.00; 37 C.F.R. § 1.21(e))

\$ _____

NOTE: 37 C.F.R. § 1.21(f) establishes a fee for processing and retaining any application that is abandoned for failing to complete the application pursuant to 37 C.F.R. § 1.53(f) and this, as well as the changes to 37 C.F.R. §§ 1.53 and 1.78(a)(1), indicate that in order to obtain the benefit of a prior U.S. application, either the basic filing fee must be paid, or the processing and retention fee of § 1.21(f) must be paid, within 1 year from notification under § 53(f).

Total fees enclosed

\$ 730**14. Method of Payment of Fees**☒ Check in the amount of \$ 730☐ Charge Account No. _____ in the amount of
\$ _____

A duplicate of this transmittal is attached.

NOTE: Fees should be itemized in such a manner that it is clear for which purpose the fees are paid. 37 C.F.R. § 1.22(b).

(New Application Transmittal [4-1]—page 8 of 11)

15. Authorization to Charge Additional Fees

WARNING: If no fees are to be paid on filing, the following items should not be completed.

WARNING: Accurately count claims, especially multiple dependent claims, to avoid unexpected high charges, if extra claim charges are authorized.

- ☒ The Commissioner is hereby authorized to charge the following additional fees by this paper and during the entire pendency of this application to Account No. 08-1500:

☒ 37 C.F.R. § 1.16(a), (f) or (g) (filing fees)

☒ 37 C.F.R. § 1.16(b), (c) and (d) (presentation of extra claims)

NOTE: Because additional fees for excess or multiple dependent claims not paid on filing or on later presentation must only be paid or these claims cancelled by amendment prior to the expiration of the time period set for response by the PTO in any notice of fee deficiency (37 C.F.R. § 1.16(d)), it might be best not to authorize the PTO to charge additional claim fees, except possibly when dealing with amendments after final action.

☒ 37 C.F.R. § 1.16(e) (surcharge for filing the basic filing fee and/or declaration on a date later than the filing date of the application)

☒ 37 C.F.R. § 1.17(a)(1)-(5) (extension fees pursuant to § 1.136(a)).

☒ 37 C.F.R. § 1.17 (application processing fees)

NOTE: "... A written request may be submitted in an application that is an authorization to treat any concurrent or future reply, requiring a petition for an extension of time under this paragraph for its timely submission, as incorporating a petition for extension of time for the appropriate length of time. An authorization to charge all required fees, fees under § 1.17, or all required extension of time fees will be treated as a constructive petition for an extension of time in any concurrent or future reply requiring a petition for an extension of time under this paragraph for its timely submission. Submission of the fee set forth in § 1.17(e) will also be treated as a constructive petition for an extension of time in any concurrent reply requiring a petition for an extension of time under this paragraph for its timely submission." 37 C.F.R. § 1.136(a)(3).

- ☐ 37 C.F.R. § 1.18 (issue fee at or before mailing of Notice of Allowance, pursuant to 37 C.F.R. § 1.311(b))

NOTE: Where an authorization to charge the issue fee to a deposit account has been filed before the mailing of a Notice of Allowance, the issue fee will be automatically charged to the deposit account at the time of mailing the notice of allowance. 37 C.F.R. § 1.311(b).

NOTE: 37 C.F.R. § 1.28(b) requires "Notification of any change in status resulting in loss of entitlement to small entity status must be filed in the application . . . prior to paying, or at the time of paying, . . . the issue fee. . . ." From the wording of 37 C.F.R. § 1.28(b), (a) notification of change of status must be made even if the fee is paid as "other than a small entity" and (b) no notification is required if the change is to another small entity.

(New Application Transmittal [4-1]—page 9 of 11)

16. Instructions as to Overpayment

NOTE: "... Amounts of twenty-five dollars or less will not be returned unless specifically requested within a reasonable time, nor will the payer be notified of such amounts; amounts over twenty-five dollars may be returned by check or, if requested, by credit to a deposit account." 37 C.F.R. § 1.26(a).

☒ Credit Account No. 08-1500

☐ Refund


SIGNATURE OF PRACTITIONER

Mark G. Kachigian
(type or print name of attorney)

228 West 17th Place
P.O. Address

Tulsa, OK 74119

(New Application Transmittal [4-1]—page 10 of 11)

Reg. No. 32,840

Tel. No. (918) 587-2000

Customer No.

☒ Incorporation by reference of added pages

(check the following item if the application in this transmittal claims the benefit of prior U.S. application(s) (including an international application entering the U.S. stage as a continuation, divisional or C-I-P application) and complete and attach the ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED)

- ☒ Plus Added Pages for New Application Transmittal Where Benefit of Prior ~~U.S.~~ U.K. Application(s) Claimed

Number of pages added _____

- ☐ Plus Added Pages for Papers Referred to in Item 4 Above

Number of pages added _____

- ☐ Plus added pages deleting names of inventor(s) named in prior application(s) who is/are no longer inventor(s) of the subject matter claimed in this application.

Number of pages added _____

- ☐ Plus "Assignment Cover Letter Accompanying New Application"

Number of pages added _____

☐ **Statement Where No Further Pages Added**

(if no further pages form a part of this Transmittal, then end this Transmittal with this page and check the following item)

- ☐ This transmittal ends with this page.

18. Relate Back—35 U.S.C. 119 Priority Claim for Prior Application

The prior U.S. application(s), including any prior International Application designating the U.S., identified above in item 17B, in turn itself claim(s) foreign priority(ies) as follows:

Country	GB	9903220.3	12 February 1999
		Appln. no.	Filed on

The certified copy(ies) has (have)

- ☐ been filed on _____, in prior application 0 / _____, which was filed on _____.

☒ ~~is/is not attached~~ will follow

WARNING: The certified copy of the priority application that may have been communicated to the PTO by the International Bureau may not be relied on without any need to file a certified copy of the priority application in the continuing application. This is so because the certified copy of the priority application communicated by the International Bureau is placed in a folder and is not assigned a U.S. serial number unless the national stage is entered. Such folders are disposed of if the national stage is not entered. Therefore, such certified copies may not be available if needed later in the prosecution of a continuing application. An alternative would be to physically remove the priority documents from the folders and transfer them to the continuing application. The resources required to request transfer, retrieve the folders, make suitable record notations, transfer the certified copies, enter and make a record of such copies in the Continuing Application are substantial. Accordingly, the priority documents in folders of international applications that have not entered the national stage may not be relied on. Notice of April 28, 1987 (1079 O.G. 32 to 46).

19. Maintenance of Copendency of Prior Application

NOTE: The PTO finds it useful if a copy of the petition filed in the prior application extending the term for response is filed with the papers constituting the filing of the continuation application. Notice of November 5, 1985 (1060 O.G. 27).

- A.** ☐ Extension of time in prior application

(This item must be completed and the papers filed in the prior application, if the period set in the prior application has run.)

- ☐ A petition, fee and response extends the term in the pending prior application until _____.
- ☐ A copy of the petition filed in prior application is attached.

- B.** ☐ Conditional Petition for Extension of Time in Prior Application

(complete this item, if previous item not applicable)

- ☐ A conditional petition for extension of time is being filed in the pending prior application.
- ☐ A copy of the conditional petition filed in the prior application is attached.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: Unknown)
Filing Date: Unknown)
Priority Date: 12 Feb 1999)
Applicant: Paul Entwistle)
For: IMPROVEMENTS RELATING)
TO TELEVISION GUIDE SYSTEM)

PRELIMINARY AMENDMENT

Assistant Commissioner For Patents
Box: New Application
Washington, D.C. 20231

Dear Sir:

This is a preliminary amendment to the enclosed application entitled "Improvements Relating To Television Guide System". Please amend the specification as follows:

Before the first paragraph on page 1, please insert

--CROSS-REFERENCE TO RELATED APPLICATIONS

This application claims priority to GB Application No. 9903220.3 filed 12 February 1999.

BACKGROUND OF THE INVENTION--;

On page 2 before line 3 insert the following heading:

--SUMMARY OF THE INVENTION--;

Page 4 before line 28 insert the following heading:

-- BRIEF DESCRIPTION OF THE DRAWINGS--

Page 5 before line 8 insert the following heading:

--DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT--;

Page 8 after line 5 add the following:

--While the invention has been described with a certain degree of particularity, it is manifest that many changes may be made in the details of construction and the arrangement of components without departing from the spirit and scope of this disclosure. It is understood that the invention is not limited to the embodiments set forth herein for purposes of exemplification, but is to be limited only by the scope of the attached claim or claims, including the full range of equivalency to which each element thereof is entitled.--

Please amend the claims as follows:

Claim 2, line 2, delete "characterised in that" and insert --wherein--;

Claim 3, line 2, delete "characterised in that" and insert --wherein--;

Claim 4, line 2, delete "characterised in that the" and insert --wherein--;

Claim 5, line 2, delete "characterised in that" and insert --wherein--;

REMARKS

The application should now be in condition for examination, which is respectfully requested.

Respectfully Submitted

HEAD, JOHNSON & KACHIGIAN

Dated: January 20, 2000

BY: 

Mark G. Kachigian, Reg. No. 32,840
228 West 17th Place
Tulsa, Oklahoma 74119
(918) 584-4187
Attorneys for Applicant

Improvements Relating to Television Guide System

The invention to which this invention relates is to the generation and control of an electronic programme guide (EPG) of the type which is generated on a television display screen and transmitted and received from a remote broadcast location.

An EPG and data relating to the same is typically transmitted at regular intervals or continuously to allow the guide to be generated and displayed and/or updated as required. The EPG is an increasingly important requirement in television broadcasting systems as the number of channels which can be received increases. The EPG systems are frequently improved as the guide or the broadcast systems upon which the same are carried are improved and progressed and usually include a series of bars and columns in a grid format which includes a series of cells, each of the cells indicating a particular programme, typically including an indication of the title, and each of the cells is positioned with respect to a time indication and a channel indication so as to provide to the user and indication of where and when they can view various programmes.

One problem is the increased ability to control the display of programmes at the viewer location to suit the viewer's wishes. This means that if, for example, the viewer is watching a programme and wishes to interrupt the programme but not miss the remainder of the programme they can decide to store in the local memory of the apparatus the remainder of the programme, and then recommence viewing of the stored programme at the desired time. This feature may be of particular importance in the future and the problem with this is that the delaying of the transmission of the programme at a location means that the display of the programme at that location and subsequent programmes, are then out of synchronisation with

the EPG data and information which is transmitted to that location. This can be confusing and/or irritating to the viewer.

The aim of the present invention is to provide a system whereby the localised delaying or altering of the viewing of a programme is taken into account in the generation of the electronic programme guide at that location or locations.

In a first aspect of the invention there is provided television data receiving apparatus which allows the display of a series of programmes at at least one location from data received, means for receiving data relating to and for generating an electronic programme guide at said location, which guide indicates the schedule of programmes and other information which can be displayed via the apparatus and means whereby the display of a programme or programmes can be delayed and or interrupted and data received for the remaining programme and/or subsequent programmes stored in a memory means for selective display at a later time and characterised in that the electronic programme guide at that location is adjusted in response to the delay in display of the remainder of the programme and/or subsequent programmes so as to provide synchronisation of the adjusted electronic programme guide details with the display of the remainder of the programme and/or subsequent programmes.

Thus, according to the invention, the schedule of the electronic programme guide is linked to the use of the local memory in the apparatus so as to automatically reflect scheduling adjustments caused by the time shifting of broadcast programmes by the user of the apparatus at a specific location rather than the broadcaster of the data. The inclusion of programme delay means and memory in set top boxes provides the ability to pause a broadcast programme and continue watching the same later to be possible and this has

given rise to the problem of displaying the start and end times of the programme in an EPG accurately as the start and end times are adjusted in response to the local viewer operation of the storage device instead of the original transmission schedule.

By providing for the automatic and interactive modification and presentation of the EPG schedule at specific locations so as to represent the time shifting which may occur in the display of the remainder of a programme or subsequent programmes, so the EPG can be kept in synchronisation with the viewing schedule at that users location and display to the user the correct start and end times. This allows the user to organise their viewing knowing when time displaced broadcast programme and subsequent programmes will finish. Furthermore, they can schedule to watch, for example, a particular programme whilst pausing another which they were previously watching and then restarting the original programme and the EPG will adjust accordingly. The method of automatic temporal shifting within the EPG allows the selection to be made by locally processing and adjusting the broadcast schedule.

In one embodiment the electronic programme guide generating means receives a first signal to indicate the commencement of a delay in broadcast of programme data and commencement of storage of the same in the memory and a second signal to indicate when the viewing of the said data recommences and adjusts the electronic programme guide to take into account the time period between said first and second signals. Typically, the said signals or additional signals are received by the means for generating the electronic programme guide and indicate the particular programme and channel which has been selectively delayed by the user, so as to allow the EPG to be adjusted accordingly with respect to the appropriate channel and programme.

Typically the electronic programme guide is adjusted by generating an additional display feature which indicates the actual viewing schedule of the user, including any delays in viewing of programmes. In one embodiment the electronic programme guide is displayed as a grid with a number of rows, each indicating a channel and located with respect to a time band, and if a selected delay of a programme is made by the user an additional row is generated on the electronic programme guide to indicate the real time viewing schedule for the user at that apparatus location and including the delay.

In a further aspect of the invention there is provided television programme data receiving apparatus which allows the display of a series of programmes at at least one location from data received, means for receiving data relating to and for generating an electronic programme guide at said location, which guide indicates the schedule of programmes and other information which can be displayed via the apparatus and means whereby the display of a programme or programmes can be selectively delayed and or interrupted by the user of the apparatus at the location and data which is then received for the remaining programme and/or subsequent programmes which have been delayed stored in a memory means for selective display on the apparatus at a later time and characterised in that the electronic programme guide at that location is adjusted in response to the localised delay in display of the remainder of the programme and/or subsequent programmes so as to synchronise the adjusted electronic programme guide details to take into account the delay in display of programme material.

Specific embodiments of the invention will now be described with reference to the accompanying diagrams wherein:-

Figure 1 indicates a typical EPG schedule;

Figure 2 indicates the schedule of Figure 1 with highlighted viewing choices;

Figure 3 illustrates the adjustments to the EPG made in one embodiment of the invention;

Figure 4 illustrates an alternative embodiment of an EPG according to the invention; and

Figure 5 illustrates a yet further embodiment of the invention.

It is possible for a user to record or store data onto a memory means such as a hard disc drive, (HDD), provided in or connected with data receiving apparatus at their premises. The data can relate to a particular programme or programmes on a particular channel or the like whilst it is being viewed. This allows the viewer to pause and then recommence watching that channel by locally storing the broadcast channel data which is received during the pause or delay in viewing. When the user selects to continue viewing the programme is generated from the data which is stored in the HDD and recommences at the point in the programme where the pause occurred and is then viewed by the viewer. The writing of programme material which has been transmitted and received in that time is contained and stored in a time buffer. The buffer therefore represents time shifted programme material such as an entire broadcast channel or potentially multiplex channels and in accordance with the invention the EPG which is generated reflects the fact that the programme material associated with a channel needs to be locally offset by the time buffer so that the EPG reflects the schedule for that particular user which has been changed due to the selection of the delay function and therefore differs from

the EPG schedule which would be generated from the data transmitted to all user locations by the broadcaster.

In accordance with the invention the EPG generation means can identify the time delay from data signal received from the memory means and can also identify the location in terms of channel and programme of the data which has been stored during the delay. One possibility is to represent this by "slipping" the row of the EPG display which relates to the channel which has been delayed and the extent of this "slippage" is determined by the buffer quantity i.e. the length of the delay. A further enhancement can be to display the original channel row timings as that is still accessible to be viewed immediately by the viewer and the data for this is still received from the broadcaster, and generate an additional channel which reflects the contents of the HDD or memory means so as to illustrate to the viewer the extent of delay and allow the viewer to select which source to watch. A yet further embodiment is to represent the duration of programmes as rectangular areas and to illustrate displacement through use of the delay facility by diagonal lines which highlight the skew between the broadcast and the stored schedules at the particular location. A yet further embodiment is to only show the time displacement of an individual programme on that channel rather than the whole channel so that for example if a film is paused to watch the news, the EPG displays the skewed end time of the film only and allows further viewing planning to be undertaken.

Figure 1 illustrates one example and illustrates a typical EPG schedule for 3 channels, namely Ch1, Ch2 and Ch3 and shows the schedule of programmes from 7 o'clock to 9 o'clock. Normally, the user or viewer of the EPG will highlight the viewing choices, as shown in Figure 2, so that, for example, between 7 and 7.30 they are watching channel 1, then between 7.30 and 8.30 channel 2 and wish

to watch the news at 8.00 and music at 9.00 on channel 3. It will be seen however that these selections overlap but by using the storage system of the apparatus the film on channel 2 can be interrupted and delayed by the user so that the news on channel 3 can be watched at the appropriate time as shown in figure 3. The viewing of the film is continued with the display generated from the data held on the memory means at the data receiver at the user location so that the end of the film can be watched. However due to the delay the users viewing schedule is then out of synchronisation with the schedule of figure 2, so that the film in fact ends at 9 o'clock in reality as shown in Figure 3 as opposed to 8.30 shown in Figure 2. Thus, with Figure 3, the EPG schedule is locally reprocessed to reflect the new viewing times, i.e. the film is delayed from starting until the selection on channel 1 is complete and thus the start of the film is stored in the local memory. When the film is started from the memory then the viewing of that is interrupted by the insertion of the news from Channel 3 which is shown live and the remainder of the film is paused until the news has finished and viewing then recommences.

An alternative method of displaying the process schedule data is shown in Figure 4 which shows a "slipped" channel representation which represents the data which is being stored on the HDD memory. Thus, it is shown that in Channel 1 the term "Some TV" is being watched and a film has started on Channel 2 while Channel 1 was being watched but the new line "HDD" indicates when the actual film started as it was previously being stored in the HDD memory means and so represents to the viewer the change in schedule.

A yet further alternative arrangement is shown in Figure 5 wherein a static selected viewing channel can be displayed that always remains visible even when the channels are scrolled down so that in figure 5

it is shown that the top line indicates the highlighted viewing which is "some TV" followed by "film" followed by "news" followed by "film" and then music while the remainder of the schedule indicates to the viewer what changes have occurred in the EPG schedule as a result of the viewing which has taken place.

1. 10
2. 10
3. 10
4. 10
5. 10
6. 10
7. 10
8. 10
9. 10
10. 10
11. 10
12. 10
13. 10
14. 10
15. 10
16. 10
17. 10
18. 10
19. 10
20. 10
21. 10
22. 10
23. 10
24. 10
25. 10
26. 10
27. 10
28. 10
29. 10
30. 10
31. 10
32. 10
33. 10
34. 10
35. 10
36. 10
37. 10
38. 10
39. 10
40. 10
41. 10
42. 10
43. 10
44. 10
45. 10
46. 10
47. 10
48. 10
49. 10
50. 10
51. 10
52. 10
53. 10
54. 10
55. 10
56. 10
57. 10
58. 10
59. 10
60. 10
61. 10
62. 10
63. 10
64. 10
65. 10
66. 10
67. 10
68. 10
69. 10
70. 10
71. 10
72. 10
73. 10
74. 10
75. 10
76. 10
77. 10
78. 10
79. 10
80. 10
81. 10
82. 10
83. 10
84. 10
85. 10
86. 10
87. 10
88. 10
89. 10
90. 10
91. 10
92. 10
93. 10
94. 10
95. 10
96. 10
97. 10
98. 10
99. 10
100. 10

Claims

1. Television data receiving apparatus which allows the display of a series of programmes at at least one location from data received, means for receiving data relating to and for generating an electronic programme guide at said location, which guide indicates the schedule of programmes and other information which can be displayed via the apparatus and means whereby the display of a programme or programmes can be delayed and or interrupted and data received for the remaining programme and/or subsequent programmes stored in a memory means for selective display at a later time and characterised in that the electronic programme guide at that location is adjusted in response to the delay in display of the remainder of the programme and/or subsequent programmes so as to provide synchronisation of the adjusted electronic programme guide details with the display of the remainder of the programme and/or subsequent programmes.

2. Television data receiving apparatus according to claim 1 characterised in that the schedule generated for the electronic programme guide is linked to the use of the local memory at the location and display so as to automatically reflect scheduling adjustments caused by the time shifting of broadcast programmes by the user selecting to delay the display of a programme.

3. Television data receiving apparatus according to claim 1 characterised in that the electronic programme guide generating means receives a first signal to indicate the commencement of a delay in broadcast of programme data and commencement of storage of the same in the memory and a second signal to indicate when the viewing of the said data recommences and adjusts the electronic programme

guide to take into account the time period between said first and second signals.

4. Television data receiving apparatus according to claim 3 characterised in that the said signal or additional signals are received by the means for generating the electronic programme guide and indicate the particular programme and channel which has been selectively delayed by the user.
5. Television data receiving apparatus according to claim 1 characterised in that the electronic programme guide is adjusted by generating an additional display feature which indicates the actual viewing schedule of the user, including any delays in viewing of programmes.
6. Television data receiving apparatus according to claim 5 wherein the electronic programme guide is displayed as a grid with a number of rows, each indicating a channel and located with respect to a time band, and if a selected delay of a programme is made by the user an additional row is generated on the electronic programme guide to indicate the real time viewing schedule for the user at that apparatus location and including the delay.

7. Television programme data receiving apparatus which allows the display of a series of programmes at at least one location from data received, means for receiving data relating to and for generating an electronic programme guide at said location, which guide indicates the schedule of programmes and other information which can be displayed via the apparatus and means whereby the display of a programme or programmes can be selectively delayed and or interrupted by the user of the apparatus at the location and data which is then received for the remaining programme and/or

subsequent programmes which have been delayed stored in a memory means for selective display on the apparatus at a later time and characterised in that the electronic programme guide at that location is adjusted in response to the localised delay in display of the remainder of the programme and/or subsequent programmes so as to synchronise the adjusted electronic programme guide details to take into account the delay in display of programme material.

2 300
3 301
4 302
5 303
6 304
7 305
8 306
9 307
10 308
11 309
12 310
13 311
14 312
15 313
16 314
17 315
18 316
19 317
20 318
21 319
22 320
23 321
24 322
25 323
26 324
27 325
28 326
29 327
30 328
31 329
32 330
33 331
34 332
35 333
36 334
37 335
38 336
39 337
40 338
41 339
42 340
43 341
44 342
45 343
46 344
47 345
48 346
49 347
50 348
51 349
52 350
53 351
54 352
55 353
56 354
57 355
58 356
59 357
60 358
61 359
62 360
63 361
64 362
65 363
66 364
67 365
68 366
69 367
70 368
71 369
72 370
73 371
74 372
75 373
76 374
77 375
78 376
79 377
80 378
81 379
82 380
83 381
84 382
85 383
86 384
87 385
88 386
89 387
90 388
91 389
92 390
93 391
94 392
95 393
96 394
97 395
98 396
99 397
100 398
101 399
102 400
103 401
104 402
105 403
106 404
107 405
108 406
109 407
110 408
111 409
112 410
113 411
114 412
115 413
116 414
117 415
118 416
119 417
120 418
121 419
122 420
123 421
124 422
125 423
126 424
127 425
128 426
129 427
130 428
131 429
132 430
133 431
134 432
135 433
136 434
137 435
138 436
139 437
140 438
141 439
142 440
143 441
144 442
145 443
146 444
147 445
148 446
149 447
150 448
151 449
152 450
153 451
154 452
155 453
156 454
157 455
158 456
159 457
160 458
161 459
162 460
163 461
164 462
165 463
166 464
167 465
168 466
169 467
170 468
171 469
172 470
173 471
174 472
175 473
176 474
177 475
178 476
179 477
180 478
181 479
182 480
183 481
184 482
185 483
186 484
187 485
188 486
189 487
190 488
191 489
192 490
193 491
194 492
195 493
196 494
197 495
198 496
199 497
200 498
201 499
202 500
203 501
204 502
205 503
206 504
207 505
208 506
209 507
210 508
211 509
212 510
213 511
214 512
215 513
216 514
217 515
218 516
219 517
220 518
221 519
222 520
223 521
224 522
225 523
226 524
227 525
228 526
229 527
230 528
231 529
232 530
233 531
234 532
235 533
236 534
237 535
238 536
239 537
240 538
241 539
242 540
243 541
244 542
245 543
246 544
247 545
248 546
249 547
250 548
251 549
252 550
253 551
254 552
255 553
256 554
257 555
258 556
259 557
260 558
261 559
262 560
263 561
264 562
265 563
266 564
267 565
268 566
269 567
270 568
271 569
272 570
273 571
274 572
275 573
276 574
277 575
278 576
279 577
280 578
281 579
282 580
283 581
284 582
285 583
286 584
287 585
288 586
289 587
290 588
291 589
292 590
293 591
294 592
295 593
296 594
297 595
298 596
299 597
300 598
301 599
302 600
303 601
304 602
305 603
306 604
307 605
308 606
309 607
310 608
311 609
312 610
313 611
314 612
315 613
316 614
317 615
318 616
319 617
320 618
321 619
322 620
323 621
324 622
325 623
326 624
327 625
328 626
329 627
330 628
331 629
332 630
333 631
334 632
335 633
336 634
337 635
338 636
339 637
340 638
341 639
342 640
343 641
344 642
345 643
346 644
347 645
348 646
349 647
350 648
351 649
352 650
353 651
354 652
355 653
356 654
357 655
358 656
359 657
360 658
361 659
362 660
363 661
364 662
365 663
366 664
367 665
368 666
369 667
370 668
371 669
372 670
373 671
374 672
375 673
376 674
377 675
378 676
379 677
380 678
381 679
382 680
383 681
384 682
385 683
386 684
387 685
388 686
389 687
390 688
391 689
392 690
393 691
394 692
395 693
396 694
397 695
398 696
399 697
400 698
401 699
402 700
403 701
404 702
405 703
406 704
407 705
408 706
409 707
410 708
411 709
412 710
413 711
414 712
415 713
416 714
417 715
418 716
419 717
420 718
421 719
422 720
423 721
424 722
425 723
426 724
427 725
428 726
429 727
430 728
431 729
432 730
433 731
434 732
435 733
436 734
437 735
438 736
439 737
440 738
441 739
442 740
443 741
444 742
445 743
446 744
447 745
448 746
449 747
450 748
451 749
452 750
453 751
454 752
455 753
456 754
457 755
458 756
459 757
460 758
461 759
462 760
463 761
464 762
465 763
466 764
467 765
468 766
469 767
470 768
471 769
472 770
473 771
474 772
475 773
476 774
477 775
478 776
479 777
480 778
481 779
482 780
483 781
484 782
485 783
486 784
487 785
488 786
489 787
490 788
491 789
492 790
493 791
494 792
495 793
496 794
497 795
498 796
499 797
500 798
501 799
502 800
503 801
504 802
505 803
506 804
507 805
508 806
509 807
510 808
511 809
512 810
513 811
514 812
515 813
516 814
517 815
518 816
519 817
520 818
521 819
522 820
523 821
524 822
525 823
526 824
527 825
528 826
529 827
530 828
531 829
532 830
533 831
534 832
535 833
536 834
537 835
538 836
539 837
540 838
541 839
542 840
543 841
544 842
545 843
546 844
547 845
548 846
549 847
550 848
551 849
552 850
553 851
554 852
555 853
556 854
557 855
558 856
559 857
560 858
561 859
562 860
563 861
564 862
565 863
566 864
567 865
568 866
569 867
570 868
571 869
572 870
573 871
574 872
575 873
576 874
577 875
578 876
579 877
580 878
581 879
582 880
583 881
584 882
585 883
586 884
587 885
588 886
589 887
590 888
591 889
592 890
593 891
594 892
595 893
596 894
597 895
598 896
599 897
600 898
601 899
602 900
603 901
604 902
605 903
606 904
607 905
608 906
609 907
610 908
611 909
612 910
613 911
614 912
615 913
616 914
617 915
618 916
619 917
620 918
621 919
622 920
623 921
624 922
625 923
626 924
627 925
628 926
629 927
630 928
631 929
632 930
633 931
634 932
635 933
636 934
637 935
638 936
639 937
640 938
641 939
642 940
643 941
644 942
645 943
646 944
647 945
648 946
649 947
650 948
651 949
652 950
653 951
654 952
655 953
656 954
657 955
658 956
659 957
660 958
661 959
662 960
663 961
664 962
665 963
666 964
667 965
668 966
669 967
670 968
671 969
672 970
673 971
674 972
675 973
676 974
677 975
678 976
679 977
680 978
681 979
682 980
683 981
684 982
685 983
686 984
687 985
688 986
689 987
690 988
691 989
692 990
693 991
694 992
695 993
696 994
697 995
698 996
699 997
700 998
701 999
702 1000
703 1001
704 1002
705 1003
706 1004
707 1005
708 1006
709 1007
710 1008
711 1009
712 1010
713 1011
714 1012
715 1013
716 1014
717 1015
718 1016
719 1017
720 1018
721 1019
722 1020
723 1021
724 1022
725 1023
726 1024
727 1025
728 1026
729 1027
730 1028
731 1029
732 1030
733 1031
734 1032
735 1033
736 1034
737 1035
738 1036
739 1037
740 1038
741 1039
742 1040
743 1041
744 1042
745 1043
746 1044
747 1045
748 1046
749 1047
750 1048
751 1049
752 1050
753 1051
754 1052
755 1053
756 1054
757 1055
758 1056
759 1057
760 1058
761 1059
762 1060
763 1061
764 1062
765 1063
766 1064
767 1065
768 1066
769 1067
770 1068
771 1069
772 1070
773 1071
774 1072
775 1073
776 1074
777 1075
778 1076
779 1077
780 1078
781 1079
782 1080
783 1081
784 1082
785 1083
786 1084
787 1085
788 1086
789 1087
790 1088
791 1089
792 1090
793 1091
794 1092
795 1093
796 1094
797 1095
798 1096
799 1097
800 1098
801 1099
802 1100
803 1101
804 1102
805 1103
806 1104
807 1105
808 1106
809 1107
810 1108
811 1109
812 1110
813 1111
814 1112
815 1113
816 1114
817 1115
818 1116
819 1117
820 1118
821 1119
822 1120
823 1121
824 1122
825 1123
826 1124
827 1125
828 1126
829 1127
830 1128
831 1129
832 1130
833 1131
834 1132
835 1133
836 1134
837 1135
838 1136
839 1137
840 1138
841 1139
842 1140
843 1141
844 1142
845 1143
846 1144
847 1145
848 1146
849 1147
850 1148
851 1149
852 1150
853 1151
854 1152
855 1153
856 1154
857 1155
858 1156
859 1157
860 1158
861 1159
862 1160
863 1161
864 1162
865 1163
866 1164
867 1165
868 1166
869 1167
870 1168
871 1169
872 1170
873 1171
874 1172
875 1173
876 1174
877 1175
878 1176
879 1177
880 1178
881 1179
882 1180
883 1181
884 1182
885 1183
886 1184
887 1185
888 1186
889 1187
890 1188
891 1189
892 1190
893 1191
894 1192
895 1193
896 1194
897 1195
898 1196
899 1197
900 1198
901 1199
902 1200
903 1201
904 1202
905 1203
906 1204
907 1205
908 1206
909 1207
910 1208
911 1209
912 1210
913 1211
914 1212
915 1213
916 1214
917 1215
918 1216
919 1217
920 1218
921 1219
922 1220
923 1221
924 1222
925 1223
926 1224
927 1225
928 1226
929 1227
930 1228
931 1229
932 1230
933 1231
934 1232
935 1233
936 1234
937 1235
938 1236
939 1237
940 1238
941 1239
942 1240
943 1241
944 1242
945 1243
946 1244
947 1245
948 1246
949 1247
950 1248
951 1249
952 1250
953 1251
954 1252
955 1253
956 1254
957 1255
958 1256
959 1257
960 1258
961 1259
962 1260
963 1261
964 1262
965 1263
966 1264
967 1265
968 1266
969 1267
970 1268
971 1269
972 1270
973 1271
974 1272
975 1273
976 1274
977 1275
978 1276
979 1277
980 1278
981 1279
982 1280
983 1281
984 1282
985 1283
986 1284
987 1285
988 1286
989 1287
990 1288
991 1289
992 1290
993 1291
994 1292
995 1293
996 1294
997 1295
998 1296
999 1297
1000 1298
1001 1299
1002 1300
1003 1301
1004 1302
1005 1303
1006 1304
1007 1305
1008 1306
1009 1307
1010 1308
1011 1309
1012 1310
1013 1311
1014 1312
1015 1313
1016 1314
1017 1315
1018 1316
1019 1317
1020 1318
1021 1319
1022 1320
1023 1321
1024 1322
1025 1323
1026 1324
1027 1325
1028 1326
1029 1327
1030 1328
1031 1329
1032 1330
1033 1331
1034 1332
1035 1333
1036 1334
1037 1335
1038 1336
1039 1337
1040 1338
1041 1339
1042 1340
1043 1341
1044 1342
1045 1343
1046 1344
1047 1345
1048 1346
1049 1347
1050 1348
1051 1349
1052 1350
1053 1351
1054 1352
1055 1353
1056 1354
1057 1355
1058 1356
1059 1357
1060 1358
1061 1359
1062 1360
1063 1361
1064 1362
1065 1363
1066 1364
1067 1365
1068 1366
1069 1367
1070 1368
1071 1369
1072 1370
1073 1371
1074 1372
1075 1373
1076 1374
1077 1375
1078 1376
1079 1377
1080 1378
1081 1379
1082 1380
1083 1381
1084 1382
1085 1383
1086 1384
1087 1385
1088 1386
1089 1387
1090 1388
1091 1389
1092 1390
1093 1391
1094 1392
1095 1393
1096 1394
1097 1395
1098 1396
1099 1397
1100 1398
1101 1399
1102 1400
1103 1401
1104 1402
1105 1403
1106 1404
1107 1405
1108 1406
1109 1407
1110 1408
1111 1409
1112 1410
1113 1411
1114 1412
1115 1413
1116 1414
1117 1415
1118 1416
1119 1417
1120 1418
1121 1419
1122 1420
1123 1421
1124 1422
1125 1423
1126 1424
1127 1425
1128 1426
1129 1427
1130 1428
1131 1429
1132 1430
1133 1431
1134 1432
1135 1433
1136 1434
1137 1435
1138 1436
1139 1437
1140 1438
1141 1439
1142 1440
1143 1441
1144 1442
1145 1443
1146 1444
1147 1445
1148 1446
1149 1447
1150 1448
1151 1449
1152 1450
1153 1451
1154 1452
1155 1453
1156 1454
1157 1455
1158 1456
1159 1457
1160 1458
1161 1459
1162 1460
1163 1461
1164 1462
1165 1463
1166 1464
1167 1465
1168 1466
1169 1467
1170 1468
1171 1469
1172 1470
1173 1471
1174 1472
1175 1473
1176 1474
1177 1475
1178 1476
1179 1477
1180 1478
1181 1479
1182 1480
1183 1481
1184 1482
1185 1483
1186 1484
1187 1485
1188 1486
1189 1487
1190 1488
1191 1489
1192 1490
1193 1491
1194 1492
1195 1493
1196 1494
1197 1495
1198 1496
1199 1497
1200 1498
1201 1499
1202 1500
1203 1501
1204 1502
1205 1503
1206 1504
1207 1505
1208 1506
1209 1507
1210 1508
1211 1509
1212 1510
1213 1511
1214 1512
1215 1513
1216 1514
1217 1515
1218 1516
1219 1517
1220 1518
1221 1519
1222 1520
1223 1521
1224 1522
1225 1523
1226 1524
1227 1525
1228 1526
1229 1527
1230 1528
1231 1529
1232 1530
1233 1531
1234 1532
1235 1533
1236 1534
1237 1535
1238 1536
1239 1537
1240 1538
1241 1539
1242 1540
1243 1541
1244 1542
1245 1543
1246 1544
1247 1545
1248 1546
1249 1547
1250 1548
1251 1549
1252 1550
1253 1551
1254 1552
1255 1553
1256 1554
1257 1555
1258 1556
1259 1557
1260 1558
1261 1559
1262 1560
1263 1561
1264 1562
1265 1563
1266 1564
1267 1565
1268 1566
1269 1567
1270 1568
1271 1569
1272 1570
1273 1571
1274 1572
1275 1573
1

Abstract

The invention relates to the generation of an Electronic Programme Guide (EPG) from data transmitted to a receiver location. The EPG is generated from the data for display on a screen. The receiver of the data for the programmes to be displayed and to which the EPG relates is capable of interrupting the display of the programmes and saving the data in a memory for subsequent display at a later time. The present invention ensures that the EPG data is adjusted in accordance with the data held in the memory so as to continue to be synchronised with the programmes which can be displayed.

Figure 1

7.00		7.30		8.00		8.30		9.00		
Ch1	Some TV		Next programme ...					Even more ..		
Ch2	.....		Film starts .....					.....
Ch3	Soap ...			News		Even more soap			Music	

7.00		7.30		8.00		8.30		9.00		
Ch1	Some TV		Next programme ...					Even more ..		
Ch2	.....		Film starts .....					.....
Ch3	Soap ...			News		Even more soap			Music	

Figure 2

Figure 3

	7.00	7.30	8.00	8.30	9.00
Ch1	Some TV		Next programme ...		Even more ..
Ch2	.....	Film	Film continues		
Ch3	Soap ...		News	Even more soap	
				Music	

	7.00	7.30	8.00	8.30	9.00
Ch1	Some TV	Next programme ...			Even more ..
Ch2	.....	Film starts .....			.....
hdd	.....	Film starts .....			....
Ch3	Soap ...		News	Even more soap	Music

Figure 4

	Some TV	Film	INews	Film continues	Music
	7.00	7.30	8.00	8.30	9.00
Ch1	Some TV	Next programme ...			Even more ..
Ch2	.....	Film	Film continues		
Ch3	Soap ...		INews	Even more soap	Music
Ch44	Old TV ...		Special interest		Hobby TV ...
Ch45	News	Sports			
Ch46	Other sports				More sport ..

Figure 5

COMBINED DECLARATION AND POWER OF ATTORNEY
(Original, Design, National Stage Of PCT, Supplemental)

As the below named inventor, I hereby declare that:

This declaration is of the following type:

- ☒ original
☐ design
☐ national stage of PCT
☐ supplemental

My residence, post office address and citizenship are as stated below next to my name, I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

IMPROVEMENTS RELATING TO TELEVISION GUIDE SYSTEM

the specification of which:

(a) ☒ is attached hereto

(b) ☐ was filed on _____ as _____ or _____
Express Mail No., as Serial No. not yet known _____ and was amended by Preliminary amendment
(c) ☐ was described and claimed in PCT International; Application No. _____ filed on _____
and as amended under PCT Article 19 on _____.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by the Preliminary Amendment attached hereto.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, Section 1.56(a).

☐ In compliance with this duty there is attached an information disclosure statement 37 CFR 1.97.

I hereby claim foreign priority benefits under Title 35, United States Code, Section 119 of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

(d) ☐ no such applications have been filed.

(e) ☒ such applications have been filed as follows:

COUNTRY	APPLICATION NUMBER	DATE OF FILING	PRIORITY CLAIMED UNDER 37 USC 119
<u>Great Britain</u>	<u>9903220.3</u>	<u>12 February 1999</u>	<u>X</u> YES <input type="checkbox"/> NO

As the below named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith: Paul H. Johnson, Reg. No. 19,224 and/or Mark G. Kachigian Reg. No. 32,840 and/or Brent A. Capehart Reg. No. 39,620 of the firm of HEAD, JOHNSON & KACHIGIAN 228 West 17th Place, Tulsa, Oklahoma 74119, Telephone Number (918) 587-2000, members of the Bar of the State of Oklahoma, and Robert R. Keegan, Reg. No. 18,614 and/or Daniel R. Alexander, Reg. No. 32,604 and/or Trent C. Keisling, Reg. No. 36,565 of Head, Johnson & Kachigian, 112 West Center Street, Suite 230, Fayetteville, Arkansas, and Martin G. Ozinga, Reg. No. P-44,992 of the firm of Head, Johnson & Kachigian, 204 North Robinson, Suite 3030, City Place Building, 30th Floor, Oklahoma City, Oklahoma 73102, Telephone Number (405) 236-4000, member of the Bar of the State of Oklahoma, to prosecute this application to register, to transact all business in the Patent and Trademark Office in connection therewith, and to receive the Letter Patent Document, if issued.

Address all telephone calls to Mark G. Kachigian at telephone no. (918) 587-2000.

Address all correspondence to Mark G. Kachigian, Head, Johnson & Kachigian, 228 West 17th Place, Tulsa, Oklahoma 74119.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of inventor Paul Entwistle

Inventor's signature P. Entwistle

Date

11-1-0

Residence

KANAWHA OUTSIDE LAND

Citizenship

BRITISH SUBJECT

Post Office Address

GREENHOPE, WEST YORKSHIRE, UK